

# **Smart Building Conference 2018 5 Feb 2018 Rai Amsterdam**

HVAC systems, load shifting, indoor climate, and energy and ventilation performance analyses are the key topics when improving energy performance in new and renovated buildings. This development has been boosted by the recently established nearly zero energy building

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requirements that will soon be in use in all EU Member States, as well as similar long-term zero energy building targets in Japan, the US, and other countries. The research covered in this Special Issue provides evidence of how new technical solutions have worked, in practice, in new or renovated buildings, and also discusses problems and how solutions should be further developed. Another focus is on the more detailed calculation methods needed for the correct design and sizing of dedicated systems, and for accurate

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quantification of energy savings. Occupant behavior and building operation is also examined, in order to avoid common performance gaps between calculated and measured performance. These topics demonstrate the challenge of high performance buildings as, in the end, comfortable buildings with good indoor climate which are easy and cheap to operate and maintain are expected by end customers. Ventilation performance, heating and cooling, sizing, energy predictions and optimization, load

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shifting, and field studies are some of the key topics in this Special Issue, contributing to the future of high performance buildings with reliable operation.

As the electrical industry continues to develop, one sector that still faces a range of concerns is the electrical distribution system. Excessive industrialization and inadequate billing are just a few issues that have plagued this electrical sector as it advances into the smart grid environment. Research is

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necessary to explore the possible solutions in fixing these problems and developing the distribution sector into an active and smart system. The Handbook of Research on New Solutions and Technologies in Electrical Distribution Networks is a collection of innovative research on the methods and applications of solving major issues within the electrical distribution system. Some issues covered within the publication include distribution losses, improper monitoring of system, renewable energy integration with micro-grid and

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distributed energy sources, and smart home energy management system modelling. This book is ideally designed for power engineers, electrical engineers, energy professionals, developers, technologists, policymakers, researchers, academicians, industry professionals, and students seeking current research on improving this key sector of the electrical industry.

This book includes papers on intelligent expert systems and sustainability applications in the areas of data science, image processing, wireless communication,

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risk assessment, healthcare, intelligent social network mining, and energy. The recent growth of sustainability leads to a progressively new era of computing, where its design and deployment leverages significant impact on the intelligent systems research. Moreover, the sustainability technologies can be effectively used in the progressive deployment of various network-enabled technologies like intelligent sensors, smart cities, wearable technologies, robotics, web applications and other such

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Internet technologies. The thrust of this book is to publish the state-of-the-art research articles that deals with the design, development, implementation and testing of the intelligent expert systems and also to provide an overview of the sustainable management of these systems. This book gathers selected research papers presented at the First International Conference on Embedded Systems and Artificial Intelligence (ESAI 2019), held at Sidi Mohamed Ben Abdellah University, Fez, Morocco, on 2–3 May 2019.



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Highlighting the latest innovations in Computer Science, Artificial Intelligence, Information Technologies, and Embedded Systems, the respective papers will encourage and inspire researchers, industry professionals, and policymakers to put these methods into practice.

Proceedings of ESAI 2019, Fez, Morocco  
Encyclopedia of Information Science and  
Technology, Fifth Edition  
Embedded Systems and Artificial  
Intelligence

Advances, Challenges and Opportunities

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An IoT Approach

Proceedings of SMART-ICAE 2021

***Throughout the world, there is an increasing demand on diminishing natural resources in the industrial, transport, commercial, and residential sectors. Of these, the residential sector uses the most energy on such needs as lighting, water heating, air conditioning, space heating, and refrigeration. This sector alone consumes one-third of the total primary energy resources available. By using green building and smart***

***automation techniques, this demand for energy resources can be lowered. Green Building Management and Smart Automation is an essential scholarly publication that provides an in-depth analysis of design technologies for green building and highlights the smart automation technologies that help in energy conservation, along with various performance metrics that are necessary to facilitate a building to be known as a “Green Smart Building.” Featuring a range of topics such as environmental quality, energy management, and***

***big data analytics, this book is ideal for researchers, engineers, policymakers, government officials, architects, and students. This book focuses on how to maintain environmental sustainability as one of its main principles, and it addresses how smart cities serve to diminish wastes and maintain natural resources by having clean green energy that is operated by new smart technology designs. Living in a smart city is not something of the future anymore, it is here, and it is being implemented all over the world. A smart city***

***uses different types of electronic Internet of things (IoT) sensors to collect data and then use these data to manage assets and resources efficiently. The smart city concept integrates information and communication technology (ICT), and various physical devices connected to the IoT network to optimize the efficiency of city operations and services and achieve sustainable solutions to allow us to grow with proper management of our resources. Smart sustainable structures and infrastructures face the need of urban areas due to the growth of***

***populations while in the same time save our environment. To achieve this, we need to revisit the conventional methods in design and construction and the conventional materials which are used now to optimize the design and provide smart solutions. In the past few years, the consumption of resources has been massive, and the waste produced from that consumption has been inconceivable. This is causing environmental degradation, which produces many environmental challenges, such as global climate change, excessive fossil fuel***

***dependency and the growing demand for energy. As well as, discussing the challenges facing the civil engineering design and construction of smart cities components and presenting concepts and insight from experts and researchers from different civil engineering disciplines., this book explains how to construct buildings and special structures and how to manage and monitor energy.***

***This book focuses primarily on the nature-inspired approach for designing smart applications. It includes several implementation***

***paradigms such as design and path planning of wireless network, security mechanism and implementation for dynamic as well as static nodes, learning method of cloud computing, data exploration and management, data analysis and optimization, decision taking in conflicting environment, etc. The book fundamentally highlights the recent research advancements in the field of engineering and science.***

***This book highlights the latest advances in the field of artificial intelligence and related technologies, with a special focus on sustainable***



***development and environmentally friendly artificial intelligence applications. Discussing theory, applications and research, it covers all aspects of artificial intelligence in the context of sustainable development.***

***Emerging Technologies for Computing, Communication and Smart Cities***

***Hidden Markov Models and Applications***

***Advances on Broadband and Wireless***

***Computing, Communication and Applications***

***Proceedings of International Conference on***

***Sustainable Expert Systems***

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***Internet of Things for Smart Environments  
Green Building Management and Smart  
Automation***

***IoT for Sustainable Smart Cities and Society***

**This book presents best selected papers presented at the Second International Conference on Emerging Technologies for Computing, Communication and Smart Cities (ETCCS 2021) held on 21-22 August 2021 at BFCET, Punjab, India. IEI India members supported externally. It is co-organized by Southern Federal University, Russia; University of Jan Wyżykowski (UJW), Polkowice, Poland, SD College of**

**Engineering & Technology, Muzaffarnagar Nagar, India as an academic partner and CSI, India for technical support. The book includes current research works in the areas of network and computing technologies, wireless networks and Internet of things (IoT), futuristic computing technologies, communication technologies, security and privacy. This book contains selected papers presented during the World Renewable Energy Congress (WREC) 2020 at the Instituto Superior Técnico in Lisbon. The WREC is dedicated to promoting renewable energy global development, and features top international**

**experts, policy makers, scientists, engineers, technology developers, and business practitioners addressing the most current research and technological breakthroughs in sustainable energy development and innovation. The contributions address policy and renewable energy technologies and applications in all sectors--for heating and cooling, agricultural applications, water, desalination, industrial applications, and for the transport sectors. Presents cutting-edge research in green building and renewable energy from all over the world; Covers the most up-to-date research developments, government**

**policies, business models, best practices, and innovations; Contains case studies and examples to enhance practical application of the technologies. This book is a contribution from the authors, to share solutions for a better and sustainable power grid. Renewable energy, smart grid security and smart energy management are the main topics discussed in this book.**

**This book presents state-of-the-art intelligent methods and techniques for solving real-world problems and offers a vision of future research. Featuring 143 papers from the 4th Future Technologies Conference,**

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**held in San Francisco, USA, in 2019, it covers a wide range of important topics, including, but not limited to, computing, electronics, artificial intelligence, robotics, security and communications and their applications to the real world. As such, it is an interesting, exciting and inspiring read.**

**SMART Automatics and Energy**

**Design and Construction of Smart Cities**

**Advances in Computational Collective Intelligence**

**Machine Learning for Smart Environments/Cities**

**Emerging Smart Technologies**

**Volume 2**

## **Handbook on Digital Business Ecosystems**

This book proposes new technologies and discusses future solutions for ICT design infrastructures, as reflected in high-quality papers presented at the 6th International Conference on ICT for Sustainable Development (ICT4SD 2021), held in Goa, India, on 5 – 6 August 2021. The book covers the topics such as big data and data mining, data fusion, IoT programming toolkits and frameworks, green communication systems and network, use of ICT in smart cities, sensor networks and embedded system, network and information security, wireless and optical networks, security, trust, and privacy, routing and control protocols, cognitive radio and networks, and natural language processing. Bringing together experts from different countries, the book

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explores a range of central issues from an international perspective.

This timely Handbook on Digital Business Ecosystems provides a comprehensive overview of current research and industrial applications as well as suggestions for future developments. Multi-disciplinary in scope, the Handbook includes rigorously researched contributions from over 80 global expert authors from a variety of areas including administration and management, economics, computer science, industrial engineering, and media and communication.

**DIGITAL CITIES ROADMAP** This book details applications of technology to efficient digital city infrastructure and its planning, including smart buildings. Rapid urbanization, demographic



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changes, environmental changes, and new technologies are changing the views of urban leaders on sustainability, as well as creating and providing public services to tackle these new dynamics. Sustainable development is an objective by which the processes of planning, implementing projects, and development is aimed at meeting the needs of modern communities without compromising the potential of future generations. The advent of Smart Cities is the answer to these problems. Digital Cities Roadmap provides an in-depth analysis of design technologies that lay a solid foundation for sustainable buildings. The book also highlights smart automation technologies that help save energy, as well as various performance indicators needed to make construction easier. The book aims to create a strong research

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community, to have a deep understanding and the latest knowledge in the field of energy and comfort, to offer solid ideas in the nearby future for sustainable and resilient buildings. These buildings will help the city grow as a smart city. The smart city has also a focus on low energy consumption, renewable energy, and a small carbon footprint. Audience The information provided in this book will be of value to researchers, academicians and industry professionals interested in IoT-based architecture and sustainable buildings, energy efficiency and various tools and methods used to develop green technologies for construction in smart cities.

Smart Buildings Digitalization IoT and Energy Efficient Smart Buildings Architecture and Applications CRC Press

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Artificial Intelligence for Sustainable Development: Theory,

Practice and Future Applications

Smart Cyber Physical Systems

Digitalisation, Emerging Risks and Opportunities

Science and Technologies for Smart Cities

Proceedings of ETCCS 2021

Smart Buildings Digitalization, Two Volume Set

Control of Smart Buildings

*A smart building is the state-of-art in building with features that facilitates informed decision making based on the available data through smart metering and IoT sensors. This set provides useful information for developing smart buildings including significant*

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*improvement of energy efficiency, implementation of operational improvements and targeting sustainable environment to create an effective customer experience. It includes case studies from industrial results which provide cost effective solutions and integrates the digital SCADA solution. Describes complete implication of smart buildings via industrial, commercial and community platforms Systematically defines energy-efficient buildings, employing power consumption optimization techniques with inclusion of renewable energy sources Covers data centre and cyber security with excellent data storage features for smart buildings Includes systematic and detailed strategies for building air*

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*conditioning and lighting Details smart building security propulsion. This set is aimed at graduate students, researchers and professionals in building systems, architectural, and electrical engineering.*

*This book emphasizes the role of micro-grid systems and connected networks for the strategic storage of energy through the use of information and communication techniques, big data, the cloud, and meta-heuristics to support the greed for artificial intelligence techniques in data and the implementation of global strategies to meet the challenges of the city in the broad sense. The intelligent management of renewable energy in the context of the energy transition requires the use of*

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*techniques and tools based on artificial intelligence (AI) to overcome the challenges of the intermittence of resources and the cost of energy. The advent of the smart city makes an increased call for the integration of artificial intelligence and heuristics to meet the challenge of the increasing migration of populations to the city, in order to ensure food, energy, and environmental security of the citizen of the city and his well-being. This book is intended for policymakers, academics, practitioners, and students. Several real cases are exposed throughout the book to illustrate the concepts and methods of the networks and systems presented. This book proposes the development of new technological*

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*innovations--mainly ICT--the concept of "Smart City" appears as a means of achieving more efficient and sustainable cities. The overall goal of the book is to develop a comprehensive framework to help public and private stakeholders make informed decisions on smart city investment strategies and develop skills for assessment and prioritization, including resolution of difficulties with deployment and reproducibility*

*This book constitutes the refereed proceedings of the 5th Annual Smart City 360° Summit, held in Braga, Portugal, in December 2019. The volume combines selected papers of four conferences, namely IoT in Urban Space, Urb-IoT 2019, Smart Governance for Sustainable Smart*

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*Cities, SmartGov 2019, Sensor Systems and Software, S-Cube 2019, and Intelligent Technologies for Interactive Entertainment, Intertain 2019. The 5 keynote and 32 conference papers presented were carefully reviewed and selected from 113 submissions and present results of multidisciplinary scientific and industry collaboration to solve complex societal, technological and economic problems Smart Cities. As such, the main goals are to promote quality of life, work conditions, mobility and sustainability.*

*This book provides a sound theoretical base and an extensive practical expansion of smart sustainable cities and societies, while also examining case studies in the*



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*area to help readers understand IoT driven solutions in smart cities. The book covers fundamentals, applications, and challenges of IoT for sustainable smart cities and society. With a good understanding of IoT and smart cities, and the associated communication protocols, the book provides an insight into its applications in several areas of smart cities. Models, architectures, and algorithms are presented that provide additional solutions. The main challenges discussed that are associated with IoT involved include security, privacy, authenticity, etc. The book is relevant to researchers, academics, professionals, and students.*

*Proceedings of NISS 2021*

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*Proceedings of the Future Technologies Conference  
(FTC) 2019*

*Nature-Inspired Computing for Smart Application Design  
The Routledge Companion to Artificial Intelligence in  
Architecture*

*Evaluation of Energy Efficiency and Flexibility in Smart  
Buildings*

*Advances on P2P, Parallel, Grid, Cloud and Internet  
Computing*

*The New Digital Era*

This book provides an overview of how efficient building energy management can be done, considering the

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increasing importance of renewable energy integration. It also includes the grid-interactive building, their control, energy management, and optimization techniques to promote better understanding among researchers and business professionals in the utility sector and across industries. This book is written and edited by leading specialists active in concurrent developments in smart building management, renewable energy research, and application-driven R&D. The experiences and research work shared help the readers in enhancing their knowledge in the field of renewable energy, power engineering, building energy management, demand, and

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supply management and learn the technical analysis of the same in an insightful manner. Additionally, established and emerging applications related to applied areas like smart cities, the Internet of things, machine learning, artificial intelligence, etc., are developed and utilized to demonstrate recent innovations in smart building energy management.

This book constitutes refereed proceedings of the 12th International Conference on International Conference on Computational Collective Intelligence, ICCCI 2020, held in Da Nang, Vietnam, in November – December 2020. Due to the the COVID-19 pandemic the conference was

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held online. The 68 papers were thoroughly reviewed and selected from 314 submissions. The papers are organized according to the following topical sections: data mining and machine learning; deep learning and applications for industry 4.0; recommender systems; computer vision techniques; decision support and control systems; intelligent management information systems; innovations in intelligent systems; intelligent modeling and simulation approaches for games and real world systems; experience enhanced intelligence to IoT; data driven IoT for smart society; applications of collective intelligence; natural language processing; low resource languages processing;

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computational collective intelligence and natural language processing.

This book gathers best selected research papers presented at the International Conference on Networking, Intelligent Systems and Security, held in Kenitra, Morocco, during 01-02 April 2021. The book highlights latest research and findings in the field of ICT, and it provides new solutions, efficient tools, and techniques that draw on modern technologies to increase urban services. In addition, it provides a critical overview of the status quo, shares new propositions, and outlines future perspectives in networks, smart systems, security, information technologies, and

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computer science.

This book provides a written record of the synergy that already exists among the research communities and represents a solid framework in the advancement of big data and cloud computing disciplines from which new interaction will result in the future. This book is a compendium of the International Conference on Big Data and Cloud Computing (ICBDCC 2021). It includes recent advances in big data analytics, cloud computing, the Internet of nano things, cloud security, data analytics in the cloud, smart cities and grids, etc. This book primarily focuses on the application of knowledge that promotes

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ideas for solving the problems of society through cutting-edge technologies. The articles featured in this book provide novel ideas that contribute to the growth of world-class research and development. The contents of this book are of interest to researchers and professionals alike.

12th International Conference, ICCCI 2020, Da Nang, Vietnam, November 30 – December 3, 2020, Proceedings

5th EAI International Summit, SmartCity360, Braga, Portugal, December 4-6, 2019, Proceedings

Toward Sustainable Community

Digital Cities Roadmap

Smart Energy Management for Smart Grids



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ICESES 2020

Proceedings of ICT4SD 2021, Volume 1

*This book focuses on recent advances, approaches, theories, and applications related Hidden Markov Models (HMMs). In particular, the book presents recent inference frameworks and applications that consider HMMs. The authors discuss challenging problems that exist when considering HMMs for a specific task or application, such as estimation or selection, etc. The goal of this volume is*

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*to summarize the recent advances and modern approaches related to these problems. The book also reports advances on classic but difficult problems in HMMs such as inference and feature selection and describes real-world applications of HMMs from several domains. The book pertains to researchers and graduate students, who will gain a clear view of recent developments related to HMMs and their applications. Includes new advances on finite and infinite Hidden Markov Models (HMMs) and their applications from*

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*different disciplines; Tackles recent challenges related to the deployment of HMMs in real-life applications (e.g., big data, multimodal data, etc.); Presents new applications of HMMs by considering advancements with respect to inference techniques and recent technological advancements.*

*This book presents on the latest research findings, and innovative research methods and development techniques related to the emerging areas of broadband and wireless computing from both theoretical and*

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*practical perspectives. Information networking is evolving rapidly with various kinds of networks with different characteristics emerging and being integrated into heterogeneous networks. As a result, a number of interconnection problems can occur at different levels of the communicating entities and communication networks' hardware and software design. These networks need to manage an increasing usage demand, provide support for a significant number of services, guarantee their QoS, and*

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*optimize the network resources. The success of all-IP networking and wireless technology has changed the way of life for people around the world, and the advances in electronic integration and wireless communications will pave the way for access to the wireless networks on the fly. This in turn means that all electronic devices will be able to exchange the information with each other in a ubiquitous way whenever necessary. Smart Cyber Physical Systems: Advances, Challenges and Opportunities ISBN:*

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9780367337889 *Cyber Physical Systems (CPS) are the new generation of collaborative computational entities, with a prime focus on integration of the physical world and cyber space. Through a feedback mechanism, the system adapts itself to new conditions in real time. The scope of this book includes research experience by experts in CPS infrastructure systems, incorporating sustainability by embedding computing and communication in day-to-day applications. CPS, integrated with Blockchain, Artificial Intelligence, Internet of*

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*Things, Big Data, Cloud Computing and Communication, lay a foundation for the fourth industrial revolution, Industry 4.0. This book will be of immense use to practitioners in industries with a focus on autonomous and adaptive configuration, and on optimization, leading to increased agility, elasticity and cost effectiveness. The contributors of this book include renowned academics, industry practitioners and researchers. It offers a rigorous introduction to the theoretical foundations, techniques and practical*

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*solutions, through case studies. Building CPS with effective communication, control, intelligence and security is discussed in terms of societal and research perspectives. The objective of this book is to provide a forum for researchers and practitioners to exchange ideas and to achieve progress in CPS by highlighting applications, advances and research challenges. It is highly recommended to be used as a reference book for graduate and post-graduate level programmes in universities, with a focus on research in*



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*computer science-related courses. This Special Issue “Evaluation of Energy Efficiency and Flexibility in Smart Buildings” addresses the relevant role of buildings as strategic instruments to improve the efficiency and flexibility of the overall energy system. This role of the built environment is not yet fully developed and exploited and the book content contributes to increasing the general awareness of achievable benefits. In particular, different topics are discussed, such as optimal control,*

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*innovative efficient technologies, methodological approaches, and country analysis about energy efficiency and energy flexibility potential of the built environment. The Special Issue offers valuable insights into the most recent research developments worldwide.*

*Proceedings of the 13th International Conference on P2P, Parallel, Grid, Cloud and Internet Computing (3PGCIC-2018)*

*Sustainable Energy Development and Innovation*

*Recent Advancements in ICT Infrastructure*

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*and Applications*

*Disruptive Technologies for Big Data and  
Cloud Applications*

*Case Study : Tipasa, Algeria*

*Energy Performance and Indoor Climate  
Analysis in Buildings*

*Networking, Intelligent Systems and  
Security*

Over the past years, businesses have had to tackle the issues caused by numerous forces from political, technological and societal environment. The changes in the global market and increasing uncertainty require us to focus on disruptive innovations and to investigate this

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phenomenon from different perspectives. The benefits of innovations are related to lower costs, improved efficiency, reduced risk, and better response to the customers' needs due to new products, services or processes. On the other hand, new business models expose various risks, such as cyber risks, operational risks, regulatory risks, and others. Therefore, we believe that the entrepreneurial behavior and global mindset of decision-makers significantly contribute to the development of innovations, which benefit by closing the prevailing gap between developed and developing countries. Thus, this Special Issue contributes to closing the research gap in the literature by providing a platform

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for a scientific debate on innovation, internationalization and entrepreneurship, which would facilitate improving the resilience of businesses to future disruptions. Order Your Print Copy

This book presents the latest research findings, as well as innovative theoretical and practical research results, methods and development techniques related to P2P, grid, cloud and Internet computing. It also reveals the synergies among such large scale computing paradigms. P2P, Grid, Cloud and Internet computing technologies have rapidly become established as breakthrough paradigms for solving complex problems by enabling aggregation and sharing of an increasing variety of

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distributed computational resources on a large scale. Grid computing originated as a paradigm for high-performance computing, offering an alternative to expensive supercomputers through different forms of large-scale distributed computing. P2P computing emerged as a new paradigm following on from client-server and web-based computing and has proved useful in the development of social networking, B2B (Business to Business), B2C (Business to Consumer), B2G (Business to Government), and B2E (Business to Employee). Cloud computing has been described as a “ computing paradigm where the boundaries of computing are determined by economic rationale rather than

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technical limits ” . Cloud computing has fast become the computing paradigm with applicability and adoption in all domains and providing utility computing at large scale. Lastly, Internet computing is the basis of any large-scale distributed computing paradigm; it has very quickly developed into a vast and flourishing field with enormous impact on today ’ s information societies and serving as a universal platform comprising a large variety of computing forms such as grid, P2P, cloud and mobile computing.

This book covers complete spectrum of the ICT infrastructure elements required to design, develop and deploy the ICT applications at large scale. Considering

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the focus of governments worldwide to develop smart cities with zero environmental footprint, the book is timely and enlightens the way forward to achieve the goal by addressing the technological aspects. In particular, the book provides an in depth discussion of the sensing infrastructure, communication protocols, computation frameworks, storage architectures, software frameworks, and data analytics. The book also presents the ICT application-related case studies in the domain of transportation, health care, energy, and disaster management, to name a few. The book is used as a reference for design, development, and large-scale deployment of ICT applications by practitioners,



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professionals, government officials, and engineering students.

This book gathers selected papers presented at the International Conference on SMART Automatics and Energy (SMART-ICAE 2021), held in Far Eastern Federal University, Vladivostok, Russian Federation during 7-8 October 2021. The book will be useful for wide range of specialists in the field of designing innovative solutions and organizational measures that increase the efficiency of the use of industry technologies in their various manifestations. The issue is also of interest to scientific and engineering personnel engaged in the achievements and farsighted researches

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in the area of intellectual technology use for solving of real, applied tasks in various areas of industries and policies of nations and systems and for students and undergraduates studying "Power systems engineering and electrotechnics", "Automatized systems", "Managerial systems in power technologies", etc., and postgraduate students in the corresponding branches of study.

Proceedings of the 13th International Conference on Broadband and Wireless Computing, Communication and Applications (BWCCA-2018)

An Integration to Grid and Local Energy Communities  
Artificial Intelligence and Heuristics for Smart Energy

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Efficiency in Smart Cities

Handbook of Research on New Solutions and

Technologies in Electrical Distribution Networks

IoT-Based Architecture and Sustainable Buildings

ICT Systems and Sustainability

Smart Buildings Digitalization

*This book discusses various artificial intelligence and machine learning applications concerning smart buildings. It includes how renewable energy sources are integrated into smart buildings using suitable power electronic devices. The deployment of advanced technologies with monitoring, protection, and energy management features is included, along with a case study on automation. Overall, the focus is*

*on architecture and related applications, such as power distribution, microgrids, photovoltaic systems, and renewable energy aspects. The chapters define smart building concepts and their related benefits. FEATURES Discusses various aspects of the role of the Internet of things (IoT) and machine learning in smart buildings Explains pertinent system architecture and focuses on power generation and distribution Covers power-enabling technologies for smart cities Includes photovoltaic system-integrated smart buildings This book is aimed at graduate students, researchers, and professionals in building systems engineering, architectural engineering, and electrical engineering.*

*The rise of intelligence and computation within technology has created an eruption of potential applications in numerous professional industries. Techniques such as data analysis, cloud computing, machine learning, and others have altered the traditional processes of various disciplines including healthcare, economics, transportation, and politics. Information technology in today's world is beginning to uncover opportunities for experts in these fields that they are not yet aware of. The exposure of specific instances in which these devices are being implemented will assist other specialists in how to successfully utilize these transformative tools with the appropriate amount of discretion, safety, and awareness. Considering the level of*

*diverse uses and practices throughout the globe, the fifth edition of the Encyclopedia of Information Science and Technology series continues the enduring legacy set forth by its predecessors as a premier reference that contributes the most cutting-edge concepts and methodologies to the research community. The Encyclopedia of Information Science and Technology, Fifth Edition is a three-volume set that includes 136 original and previously unpublished research chapters that present multidisciplinary research and expert insights into new methods and processes for understanding modern technological tools and their applications as well as emerging theories and ethical controversies surrounding the field of information science.*

*Highlighting a wide range of topics such as natural language processing, decision support systems, and electronic government, this book offers strategies for implementing smart devices and analytics into various professional disciplines. The techniques discussed in this publication are ideal for IT professionals, developers, computer scientists, practitioners, managers, policymakers, engineers, data analysts, and programmers seeking to understand the latest developments within this field and who are looking to apply new tools and policies in their practice. Additionally, academicians, researchers, and students in fields that include but are not limited to software engineering, cybersecurity, information technology, media*

*and communications, urban planning, computer science, healthcare, economics, environmental science, data management, and political science will benefit from the extensive knowledge compiled within this publication. Urban Climate Adaptation and Mitigation offers evidence-based, scientific solutions for improving a city's ability to prepare, recover and adapt to global climate-related events. Bringing together a wide variety of research disciplines to addresses the linkages to climate change adaptation and mitigation topics with planning, transportation and waste management, the book informs different types of stakeholders on how they can enhance their preparation abilities to enable real-time response methods. Application-*



*focused throughout, this book explores the complexities of urban systems and subsystems to support researchers, planners and decision-makers in their efforts toward developing more climate-resilient smart cities. Presents a structured, in-depth analysis of smart city cases from around the world Includes evidence-based toolkits and frameworks for assessing contribution of smart city solutions to climate resilience Provides a state-of-the-art literature review and glossary*

*This book aims to introduce recent advances in IoT and its applications for smart environments. The state of the art is reviewed with a focus on the technologies, applications, challenges, and opportunities. At this stage, a comprehensive*

*understanding of the formal and practical applications of IoT in the different scenarios of smart environments is necessary to support future research. Therefore, the main contribution of this book is a comprehensive study of the most recent proposals for smart environments. In addition, this book synthesizes existing information and highlights common threads and gaps that lead to new and complex areas of future research. The book covers a range of major research subjects which will foster future implementations. The topics include smart learning environments, crowdsensing applications, participatory citizen sensing, multimodal perception systems and security challenges. This book seeks to provide a valuable framework for future*

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*research projects by expounding the topic to academics, engineers, and industry professionals, which is necessary for the design of future IoT architectures for smart environments.*

*Strategies, Platforms, Technologies, Governance and Societal Challenges*

*Proceedings of ICBDDC 2021*

*Selected Papers from the World Renewable Energy Congress (WREC) 2020*

*IoT and Energy Efficient Smart Buildings Architecture and Applications*

*Urban Climate Adaptation and Mitigation*

*Machine Learning Methods with Noisy, Incomplete or Small*

***Datasets***

***Geospatial Data Science in Healthcare for Society 5.0***

*The New Digital Era's two volumes highlight the new social and economic policies that are needed to balance the effects on social and economic life and prevent possible conflicts between individuals and societies in the wake of the COVID-19 pandemic and digitalisation. Providing the most comprehensive source available, this book surveys the state of the art in artificial intelligence (AI) as it relates to architecture. This book is organized in four parts: theoretical foundations, tools and techniques, AI in research, and AI in architectural practice. It provides a framework for the issues surrounding AI and offers a*

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*variety of perspectives. It contains 24 consistently illustrated contributions examining seminal work on AI from around the world, including the United States, Europe, and Asia. It articulates current theoretical and practical methods, offers critical views on tools and techniques, and suggests future directions for meaningful uses of AI technology. Architects and educators who are concerned with the advent of AI and its ramifications for the design industry will find this book an essential reference.*

*We live in a world with an abundance of technologies and the technologies are developing and improving rapidly. Technologies are transforming our lifestyles, social*

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*interactions, and workplaces. Nearly everyone in the developed nations possesses multiple electronic gadgets (cell phones, tablets, personal computers, laptops, digital notebooks, etc.). Daily use of technology has evolved. Recent advances in the field of technology have led to the emergence of innovative solutions known as smart technologies. A technology is considered smart if it performs a task that an intelligent person can do. A smart or intelligent technology is a self-operative and corrective system that requires little or no human intervention. Smart technologies can be understood as a generalization of the concept of smart structures and the use of digital and communications technologies. They have given us new,*

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*powerful tools to work. Application of such technologies can transform the conventional cities into smart cities, conventional home into smart home, conventional farming into smart farming, etc. Today, we are in an era where everything is expected to be smart. Common examples include smart cities, smart factory, smart agriculture, smart farming, smart healthcare, smart university, smart medication, smart water, smart food, smart materials, smart devices, smart phones, smart grid, smart energy, smart homes, smart buildings, smart metering, smart appliances, smart equipment, smart heating controls, smart lighting systems, smart watch, smart economy, smart environment, smart grids, smart transportation,*

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*smart mobility, smart manufacturing, smart living, smart environment, smart people, etc. These technologies will ensure equity, fairness, and realize a better quality of life. The combined autonomy and ambience of smart technologies simultaneously provides the conduit through which our choices are affected. These smart technologies go hand-in-hand with a new technology called the Internet of things (IoT).*